

Mathematical Model and Computer-Controlled
Programme for Blast Furnaces with Complex
Charge and Methane and Oxygen Injection in the
Hot Blast, by I. Dumitrascu,
ROMANIAN, per. Matalurgia, Vol 22, No 12, 1970,
pp 756-760.
BISI 9518

Feb 72

Investigation Regarding High Tempering
Behaviour of 40 C10 and 40 BC 10
Steels, by N. Popescu.
EUROPEAN, per, Metalurgia, Bucuresti,
Vol 22, No 12, 1970, pp 761-766
NTC 72-60127-11F
BISI 9519

June 72

Considerations regarding causes of flaws
occurring in filled steel ingots, by
S. Vacu.
ROMANIAN, per, Metalurgia, 1970, No 12,
pp 780-782
BISI 9520

dec 72

The Thickness Determination, Control and Choice of
Steel for 700-2000 m³ Useful Capacity Blast Furnace
Shells, by I. Vircolacu,
ROMANIAN, per. Metalurgia, No 1, 1971, pp 13-19.
BISI 9617

Oct 72

Some Aspects of the Correlation Between Micum
and Irsid Resistance of Metallurgical Coke,
by E. Falk,
ROMANIAN, per. Metalurgia, Vol 23, No 2, 1971,
pp 69-74.
BISI 9651

Mar 72

Aspects of Development in Blast Furnace Coke
Consumption in the Iron and Steel Works, Galati,
by S. Banu.
ROMANIAN, per, Metalurgia, Vol 23, No 2, 1971,
pp 95-99.
BISI 9654

Oct 72

P. Tocu

Statistical Mathematical Analysis Regarding
Optimal Grading of the Blast-Furnace Charge.
ROMANIAN, per, Metalurgia. Bucuresti, Vol 23,
No 3, 1971, pp 137-141.
Order from BISI as BISI 9641
NTC 72-60710-13H

Nov 72

M. Adrian

Estimations of the Friction Coefficient in Steel
Strip Cold Rolling.

ROMANIAN, per, Metalurgia, Bucuresti, Vol 23,
No 3, 1971, pp 147-148

NYC 72-60345-13H

FTD/HC-23-1788-71

sept 72

V. I. Popescu

Investigation Regarding the Interdependence
Between Degree of Deformation in Forging and
Degree of Plastic Deformation Under Various
Forging Conditions.

ROMANIAN, per, Metalurgia, Bucuresti, Vol 23,
No 3, 1971, pp 149-153

NTC 72-60329-11F

FTD-HC-23-1789-71

BISI 9643

sept 72

Investigations regarding the replacement
of standard coke by other fuels, by
A. Urseanu.

RUMANIA, Metalurgia, 1971, Nov 23, 4,
pp 205-208
BISI 9648

dec 72

Some Aspects of Pack Chromizing Steel Parts,
by V. Tirziu,
ROMANIAN, per. Metalurgia, Vol 23, No 4,
1971, pp 215-218.
BISI 9649

Mar 72

D. M. Stefanescu

Investigation Regarding the Replacement of
Standard Coke by Other Fuels.

ROMANIAN, per, Metalurgia. Bucuresti, Vol 23,
No 4, 1971, pp 229-233

NTC 72-60331-21D

BISI 9650

sept 72

Influence of Metallic Charge and Coke Quality Upon Coke
Consumption the the Sinter Process, by S. Forizs,
ROMANIAN, per. Metalurgia, Vol 23, No 5, 1971,
pp 275-280.
RISI 9645

Oct 72

M. Riza

Investigation of Rapid Processes in the
Isothermal Transformation of Austenite.
ROMANIAN, per, Metalurgia, Bucuresti, Vol 23,
No 5, 1971, pp 287-290
NTC 72-60346-11F

sept 72

Steels With 9% Cr and Other Alloying Elements
for High Temperature Application, by B. Rotenstein.
RUMANIAN, per, Metalurgia, Vol 23, No 5, 1971,
pp 314-321.
BISI 9647

Oct 72

O. V. Hatarascu

The production of sponge iron by means of converted
methane

ROMINIAN, per, Metalurgia, Vol 23, No 7, 1971, pp 431-435

BISI 9836

NTC 72-60780-11F

may 72

Improvement in the Sampling of Agglomerates,
by S. Forisz.
ROMANIAN, per, Metalurgia, No 11, 1971, pp 685-
88.
BISI 10300

Nov 72

Rotary tipplers for use in iron-making
plants, by A. Voicu, et al.
ROMANIA, per, Metalurgia, 1971, No. 11,
pp 718-720.
BISI 10302

dec 72

Investigations Regarding the Production of Ferro Mangan-
ese Romania, by G. Stanciulescu,
ROMANIAN, per. Metalurgia, No 11, 1971, pp 721-723.
BISI 10303

Oct 72

A. Urseanu

Influence of Fine Ores on Sintering Plant
Productivity

METALLURGIA, Vol 23, No 12, 1971, pp 763-766

BISI 10418

Feb 73

Texture Determination in Electrical Sheets by the
Etch-Figure Method, by C. Giotta.
ROMANIAN, per, Metalurgia, Vol 23, No 12, 1971,
pp 783-7.
BISI 10451

Jan 73

I. Dragan

Some Aspects Regarding The Estimation Of
Hot Deformability Of Steels By Means Of
The Torsion Test
METALURGIA, Vol. 23, No. 12, 1971,
PP 788-791
BISI 10452

Jan 1973

Investigations regarding the application
of ergonomics in thin sheet rolling
control, by V. Dima.
ROMANIAN, per, Metalurgia, 1971, No. 23, 12
p. 792-794

BISI 10453

dec 72

Some Aspects Regarding the Influence of Surface
Phenomena Upon Steel Quality, With Reference to
the Action of Thermoinsulating and Exothermic
Mixtures, by D. Cosma.

RUMANIAN, per, Metalurgia, Vol 23, No 12, 1971,
pp 804-807.

BISI 10454

Jan 73

P. Dumitrascu et al.

Method of Determining Reference Energy State for a
Computer-Controlled Blast Furnace

METALURGIA, No 1, 1972, pp 1-5

BISI 10496

Jan 1973

R. Petroiu

Some Remarks Regarding Vanadium Alloying
Of High-Speed RP 3 Steel

METALURGIA, No. 1, 1972, pp 26-28

BISI 10501

Jan 1973

Investigations Regarding Prediction Possibilities
for Some Complex Blast Furnace Parametra, by
P. Dumitrascu.
ROMANIAN, per, Metalurgia, Vol 24, No 3, 1972,
pp 145-9.
BISI 10642

Nov 72

Production of Agglomerate With Basicities Between
0.8-3.4., by A. Urseanu.
ROMANIAN, per, Metalurgia, Vol 24, No 3, 1972,
pp 150-151.
BISI 10643

Nov 72

Regarding Elasticity Modulus of Nodular Cast Iron,
Medium-Alloyed With Silicon, by T. Dumitrascu.
ROMANIAN, per, Metalurgia, Vol 24, No 3, 1972,
pp 152-154.
BISI 10644

Nov 72

A.M. Petricenco

Improvement in the Properties of Graphite Nodular
Cast Iron by Alloying and Heat Treatment.

METALURGIA, 1972, Vol 3, pp 155-62

BISI 10645

Feb 73

Rhomb- Quadratic Grooving for the Roughing Lines
of Continuous Rolling Mills, by I. Tamas.
ROMANIAN, per, Metalurgia, Vol 24, 1972, pp 177-9.
BISI 10646.

Nov 72

Contributions to the Study of Blastfurnace Slag
Viscosity, by M. Vladescu.
ROMANIAN, rpt, Metalurgia, April 1972, pp 233-235.
BISI 10715

Nov 72

Some Aspects of 17 and 25 t Sheet-Steel Ingot
Solidification, by S. Martha.
ROMANIAN, rpt, Metalurgia, April 1972, pp 236-238.
BISI 10716

Nov 72

Influence of Alloying Constituents and Heat
Treatment Upon Normal Temperature Mechanical
Characteristics of Steel With 9% Cr and Other
Alloying Constituents for High-Temperature Uses,
by N. Matei.
ROMANIAN, rpt, Metalurgia, April 1972, pp 239-241.
BISI 10717

Nov 72

Investigations Related to Steel Plasticity
Estimation, by M. Adrian.
ROMANIAN, rpt, Metalurgia, April 1972, pp 246-250.
BISI 10718

Nov 72

Some Aspects Regarding Research in the Field
of Weldable Structural Steel in the Last Few
Years, by D. Cosma.

ROMANIAN, rpt, Metalurgia, April 1972, pp 268-271.
BISI 10719

Nov 72

Metallurgical Industry Prospects Considered,
by R. Pirvan, 5 pp.
ROMANIAN, per, Metalurgia, Bucharest,
No 7, Jul 72, pp 449-451.
JPRS 57153

Oct 72

Plans for Development of Metallurgical
Industry, by Ig. Pavoni, 7 pp.
ROMANIAN, per, Metalurgia, Bucharest, No 8,
Aug 72, pp 521-524.
JPRS 57376

Nov 72

Experiments Concerning Influence of Rare
Earth Elements on Plasticity of Stainless
Steels, by O. Cuida, 12 pp.
ROMANIAN, per, Metalurgia, Bucharest, No 8,
Aug 72, pp 538-543.
JPRS 57372

Nov 72

Minister Outlines Plans for Development of
Metallurgical Industry, by N. Agachi, 8 pp.
ROMANIAN, per, Metalurgia, Bucharest, No 9,
Sep 72, pp 585-589.
JPRS 57385

Nov 72

Role of Ipromet in Increasing Effectiveness
of Steel Industry Investments, by I.
Prisecaru, 7 pp.
ROMANIAN, per, Metalurgia, Bucharest, No 9,
Sep 72, pp 596-599.
JPRS 57385

Nov 72

Scientific Research Aids Development of
Metallurgical Industry, by I. Dragan, 6 pp.
ROMANIAN, per, Metalurgia, Bucharest, No 9,
Sep 72, pp 600-602.
JPRS 57385

Nov 72

Madrid and Its Rapidly Growing Industrial
Expansion, by Luis E. R. Saus, 8 pp.
FOR OFFICIAL USE ONLY
SPANISH, per, Metalurgia y Electricidad,
No 238, Jan 1965, pp 254-258.
DIA LN 260-66

Sci-Elect
Jun 66

302,120

Metall = reich

Treatment of Metals. Selection of Materials and
Treatments of Rubbing Parts, by Y. De. Villemeur.
18 pp.

FRENCH, per, La Metallurgie, Vol 99, No 7-8,
Jul-Aug 1967, pp 509-515.

ACBI J-3375
ID 2204043267

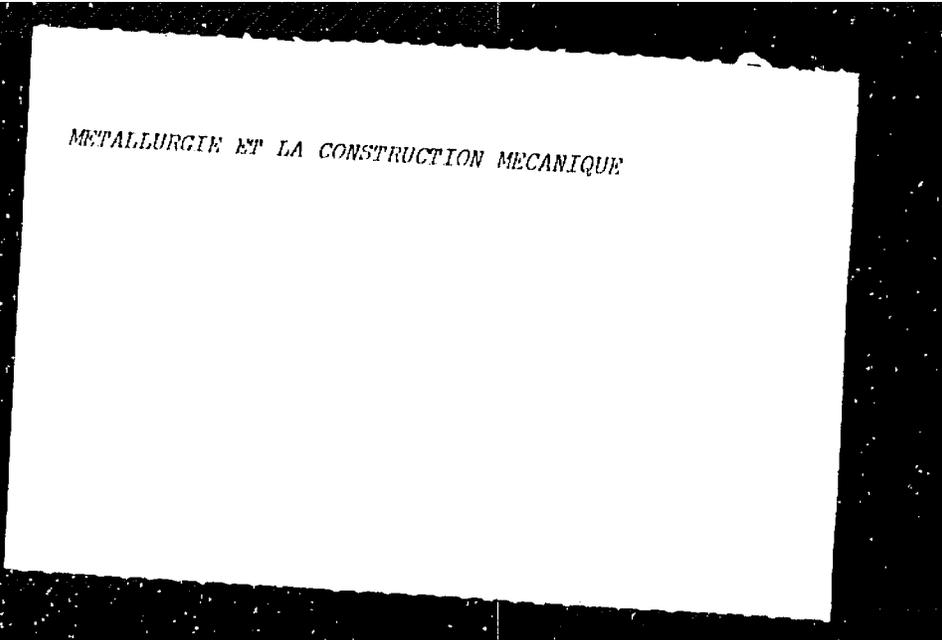
Sci-Materials
Dec 67

346,110

Forging Furnaces: Furnace Types - General Operating Conditions - Heat Recovery, by R. Courdi
e,
FRENCH, per. Metallurgie, Vol 101, No 5, 1968,
pp 274-278.
BISI 8589

The Theoretical Basis of Metal Refinement by the
Electro-Slag Process and Some Applications of this
Process for Non-Ferrous Metals, by
H. Winterhager, et al.
GERMAN, per, Metallurgia, Vol 10, 1970, pp 35-
48.
CMB-1176

July 71



METALLURGIE ET LA CONSTRUCTION MECANIQUE

Total Regeneration of Hydrochloric Acid Pick-
ling Baths, by A. Iako.
FRENCH, per, Met. Constr. Mecan., Vol 97, Jul-
Aug 1965, pp 553-556.
BISI 5373

Sci-lat
Oct 67

340,862

Melting Under Electro-Conducting Slag,
by B. E. Medovar, et al.
FRENCH, per, Met. Constr. Mecan., Vol 97,
Nov. 1965, pp 795-797.
RISI 4984

Sci-MEM
Aug 66

308,775

Automatic Regulation and Control of Blast Furnace
Charging, by M. H. Lachaux.
FRENCH, per, Mét. Constr. Mécan., Vol 98, No 10,
1967, pages 705-708.
BISI 5781

Sci/Materials
January 1968

341,922

The Problem of Hydrogen in Steels, by P. Bastien.
FRENCH, per, Met Constr Mech, Vol 99, 1967, pp 97-103.
*NBS TT 71-53024
Available NBS Only

June 71

Ultra-High Strength Steels in the French Aero-
space Industry, by D. Douillet.
FRENCH, per. Met Constr Mecan. Vol 99, Mar 1967,
pp 169-176.
BISI 5821

Sci-Mat
Dec 67

346,588

Utilisation of Pro-Reduced Ore For Iron-
Making.
FRENCH, per, Mét. Constr. Mécan., Vol 99,
November 1967, pp 777-781.
BISI 6401

Sci/Materials
Jan 69

353,157

Uainor Dunkirk, by Anon,
FRENCH, per. Met. Constr. Mecan., Vol 101, No 3,
1969,
BISI 7797

Sci/Mat
Apr 70

405,802

Direct Reduction of Iron Ore. Process Using
Methane Converted by Carbon Dioxide, by
I. Tripsa, et al.
FRENCH, per, Met Constr Mecan, Vol 101, Apr 1969,
pp 221-226.
BISI 7920

Sci-Mat
June 70

Possible Methods of Using Pre-Reduced Products
in an Electric Steelmaking Furnace, by J. Antoine,
FRENCH, per. Met. Constr. Mecan., Vol 101, No 5,
1969, pp 267-273.
BISI 6713

Sci/Mat
Mar 70

404,209

Economic Aspects of the Use of a Partially
Reduced Charge in the Production of Pig
Iron in the Electric Furnace, by J. Astier,
FRENCH, per. Met. Constr. Megan., Vol 101,
Aug-Sep, 1969, pp 415-423.
BISI 8358

Sci/Mat
Oct 70

A. K. YAITSKII

On the Pouring of Non-Aging Type 08Yu Steel.

METALLURG. i GORNORUDN. PROM, Volume 13,

Number 1, 1972, pp 18-19

HB 8863

Feb 73

S. I. BORISCV

Extrusion of Bimetal Tubes in the Unsteady-State
Period. METALLURG. i GORNORUDN. PROM., Volume 13,
Number 2, 1972, pp 28-29
HB 8877

Feb 73

T. V. MALYSHEVA

Pickling of Carbon Steels in Sulfuric and
Hydrochloric Acids. METALLURG. i GORNORUDN. PROM.,
Volume 13, Number 2, 1972, pp 82-83
HE 8887

Feb 73

V. N. IPATOVA

The Distribution of Impurities in Steel Ingots.

METALLURG. i GORNORUDN. PROM., Volume 13,

Number 2, 1972. pp 86-87

HB 8884

Feb 73

A. D. Akimenko

Features of Heat Extraction in Closed Secondary
Cooling Systems of Continuous-Casting Plants.
METALLURG I GORNORUDN. PROM, Vol. 13, No. 3,
1972, pp. 36-37.
HB 8925

Feb 73

N. N. Spichka

Distortion of Ingot Molds of Nodular Cast Iron.
METALLURG. I GORNORUDN. PROM., Vol. 13, No. 4,
1972, pp. 45-46.
HF 8957

Feb 73

METALLURGIE, MONS
1968 VS N2 P87-96

7158 <HISI>

ORDER FROM NTC

The Container, An Instrument for the Promotion of
Air Freight, by Charles Ducarre, 5 pp.

GOVERNMENT USE ONLY

FRENCH, per, Metallurgie Rhone Alpes, No 12, 1968,
pp 21-23.

ARM/ESTC/IT-23-481-69

Sci/Mech
Mar 70

401,943

Oxidation of Brass 67/33 Upon Annealing.
Influence of the Surface Cleanliness on
Composition and Properties of the Scale
Layer, by M. Negrerie, J. Herengual.
GERMAN, per, Metallwissenschaft und Technik,
Vol 19, No 11, 1965, pp 1259-1263.
Chem Trans Sv 3085

326,312

Sci - Materials
May 67

The Occurrence of Magnesium Silicide
Segregations in Extruded Profiles From
AlMgSi 0.5 Based on Al 99.9, by G. Scharf.
GERMAN, per, Metallwissenschaft und Technik,
Vol 20, No 3, 1966, pp 203-209.
Chem Trans Sv 3084

Sci - Chemistry
May 67

326,311

The Stress Corrosion Behavior of Silicon Brass
With and Without Surface Protection by
Electroplated Metal Coatings, by H. Laub.
GERMAN, per, Metallwissenschaft und Technik,
Vol 20, No 6, 1966, pp 597-600.
Chem Trans Sv 2950

324,403

Sci - Materials
May 67

The Basic Mechanisms of Hardening and Their
Combination for the Interpretation of the
Physical Physical Properties of High-Strength
Alloys, by F. Hombogen.

GERMAN, per, Metallwissenschaft und Technik,
Vol 22, 1968, pp 891-900.

*AEC/SANDIA

Sci/Materials
Apr 69

The Application of Thermobimetal HT Low
Temperatures, by J. Engster. 8 pp.

GOVERNMENT USE ONLY

GERMAN, per, Metallwissenschaft und Tech,
Vol 23, No 2, 1969, pp 135-137.

NASA TT F-12,526

Sci-Materials

Nov 69

395,558

*Fatigue behaviour of metallic materials in a vacuum and
various gas environments - Part 1, by M. Bohmer.*

GERMAN, per, *Metalwissenschaft und Technik*, Vol 24,
1970, pp 446-455.

C.E. 5727

apr 72

*Fatigue behaviour of metallic materials in a vacuum and
various gas environments - Part 2, by M. Bohmer.
GERMAN, per, Metallwissenschaft und technik, Vol 24,
1970, pp 857-863.
C.E. 5726*

apr 72

Contribution to the Study of the Oxidation of
Zirconium and of the Diffusion of Oxygen into
the Oxide and into the Metal, 66 pp.
GERMAN, per, Metaux, No 42, 1967, pp 235-258.
AEC-WAPD-Tr-0091

Sci/Mat
Sept 68

357,454

Study of Electrochemical Phenomena Connected with Carbide Precipitation in Some 18/8 Stainless Steels, by J. Voeltzel. FRANCE, per, Met. Corr. Ind., Vol 40, Mar 1965, pp 91-109.
BISI 4439 Pt 1

BB-France
Sci/MQH
Jan 66

294,627

Study of Electrochemical Phenomena Con-
nected With Carbide Precipitation in Some
18/8 Stainless Steels, by J. Voeltzel.
FRANCO, per, Met. Corr. Ind., Vol 40,
Apr 1965, pp 158-180.
BISI 4439 Pt II

RE-France
Sci/1025
Jan 66

295,207

Study of Electrochemical Phenomena Connected with Carbide Precipitation in Some 18/8 Stainless Steels, by J. Voeltzel. FRENCH, per, Met. Corr. Ind., Vol 40, May 1965, pp 202-219. BISI 4459 Pt III

Sci-France
Sci/Eng
Jan 66

293,208

New method of electrolytic etching for observation of the structure and sub-structure of Iron, by J. . Truffier, et al.
FRANCE, rev. Met Corros Ind., Vol 61, June 1966,
pp 235-243.

BLSI #10.

NLL Ref: 9022.06 (5409)

Sci-ent
ray 68

356,18:

Influence of Electrical Condition on the Diffusion
of Hydrogen in Iron and Steels, by H. Veyseyre.
FRENCH, per, Mataux Corrosion-Industries, No 495,
1966, pp 405-424.
*Nat Bur Stand TT 70-57886

Sci-Phys
Jul 70

Study of the Levelling Phenomenon of the
Metallic Surface, by S. Raviv, E. Rabinovitz.
FRENCH, per, Mot. Corros., Ind., Vol 41, No 12,
1966, pp 454-462.
BISI 5949

Sci-Mateir
Mar 69

377,316

Comparative Study of Methods Used for
Measuring Residual Stresses in Metals,
by P. Grevier.

FRENCH, per, Met. Corros. Ind., Vol 42,
Jan 1967, pp 37-47.
BISI 6003

Sci-Mat
Jan 69

370,764

Some Experiments on the Role of Rust in the
Process of Corrosion of Steel in Aqueous Media,
by E. Herzog.
FRENCH, per, Met. Corros. Ind., Vol 42, Apr 1967,
pp 133-151.
BISI 6195

scu/ materials
sept 69

390,879

Industrial Straightening, by J. Flechon
FRENCH, per, Met Corros. Ind., No 42, May 1967,
pp 204-213.
BISI 6419

Sci-Materials
July 68

350,838

An Electron Microscope and Optical Microscope of
Hydrogen Diffusion and the Structure of Fe of
Diffusion Purity After Cathodic Charging, by
M. Dadian.
FRENCH, per, Metaux Corrosion-Industries, Vol 42,
1967, pp 345-359.
*Nat Bur Stand TT 70-57892

Role of Niobium in Improvement of the Mechanical
Properties of Weldable Structural Steels,
by P. Mandry.
FRENCH, per, Met. Corros. Ind., Vol 42, Nov 1967,
pp 389-411, Dec 1967, pp 433-462.
BISI 6657

Sci-Materials

Apr 69

577,778

Apr. 69

Effect of Electric Field on Grain Boundary Movement, by N. Dadian.

FRENCH, per, Metaux Corrosion-Industries, Vol 42, 1967, pp 412-431.

*Nat Bar Stand TT 70-57885

Sci-Elec
Jul 70

METAUX, COMBUSTION, INDUSTRIES
1968 V43 P24-48 ORNL-TR-2246 (S)

ORDER FROM NTC

The Scanning Electron Microscope. Some Metallurgical
Applications, by G. Wyon.
FRENCH, per, Met Corros Ing. Vol 63, 1968,
pp 419-445.
BISI 7567

Sci/Phys
May 70

406,767

The Meteorites of Upper Volta, by P. Orloff,
22 p.
FIENGI, bk, Les Meteorites de Haute - Volta,
Jun-Jul 1965.
*AFC

Sci/Earth Sci
May 66

Originalien, by Karl Wulf, 14 pp.
GERMAN, per. Zur Meteorobiologie und Meteoropathologie der Haut, pp 201-205.
ACSI-K-2917

Sep 72

Meteorology For All, by Czeslaw Szczepinski,
POLISH, bk, Meteorologia dla wszystkich, 1967.
CISTI TT 65-50313

Sci/Atmos Sci
Apr 68

351,277

Equation of the Tendency of Atmo-
spheric Stability, by S. Brandejs,
3 pp.

CZECH, per, Meteorologické Zpravy,
No 5, 1965, p 137.

P100226668-V

PTD-INT-23-639-67

Sci/Atmospheric Sci
Sep 68

364,335

*Soil moisture measurement, by Gaclav Lednický,
Vaclav Richter. 11 pp.
CZECH, per, Meteorol. Zpravy, (Prague), Vol 22, No 1,
1969, pp 28-31.
NASA TT F 14,137
NTC-72-14865-08M*

apr 72

Three Years of Numerical Methods at the Synoptic
Service of the Hydrometeorological Institute, by
M. Skoda, 12 pp.
CZECH, per, Meteorologicke Zpravy, Vol 23, No 1,
1970, pp 7-10.
AIR/FTD/HC-23-818-71

Jan 72

Contribution to the Statistical Study of Clean Air
Turbulence Europe-Mediterranean Area, by P. Brochet,
H. Gland 28 pp.

FRENCH, per, La Meteorologie, Vol 4, No 81, 1967,

pp 3-23

AIR/FTD-HT-23-133-71

COPYRIGHTED INFORMATION LIMITED TO US GOV'T ONLY

METEOROLOGIE

1967 S5 N2 P259-271

5828.4F (7962) <NLL>

ORDER FROM NTC

Agency: Environmental Science Services Administration
P.O.No. E 8581

Title: Commission des Instruments P-10836-Z
C.I.M.O. et des Methodes 16 Sept. 69
d'Observation

Author: Meteorologie Nationale Mondiale

Source: 7

Language: French

28 pp

Instructions: Please translate and type 1 copy only.

REQ TR CHECK

27-9-30

TS04

SOME RESULTS OF EXPERIMENTAL INVESTIGATIONS
OF TURBULENCE IN THE TROPOSPHERE AND
STRATOSPHERE

PINUS N Z; SHUR G N

GE: METEOROLOGISCHE GESELLSCHAFT,
WETTERVORHERSAGE TAGUNG, KÜHLUNGSBORN,
OCT 1969, pp 363-378

In Process as

HC 72-23-0538

Negative

20 Oct 71